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| **Date:** | 04/05/2018 | **Issue:** | 0.3 |
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# Purpose and Scope

The document studies the impact of filter variation on photo-z’s. In this study we model a range of typical variations, based on input from various people reporting the behavior of different instruments, and to estimate the corresponding impact on photo-*z* accuracy. Therefore, this document must serve as a reference for evaluating the impact *when the exact variations are known*, which will depend on the exact instrument and observing conditions of ground-based data used for Euclid. We stress that this document is *not* the actual prediction of systematics in mean redshift that will exist in the Euclid survey.

# Related Documents

## Applicable documents

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AD | Title / Author | Document  Reference | Issue | Date |
| 1 | Euclid Science Management Plan | Euclid\_SA\_Dc\_00004\_SMP | 2.2 | 04/07/11 |
| 2 | Euclid Science Implementation Requirements Document | EUCL-ESAC-RS-8-001 | 0.7 | 21/12/12 |
| 3 | Euclid Ground Data Processing Requirements Document | EUCL-EST-RS-8-001 | 2.0 | 20/12/12 |

## Reference documents

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RD | Title / Author | Document  Reference | Issue | Date |
| 1 | ECSS Tailoring for the Euclid SGS |  | 0.1 | 29/01/13 |
| 2 | Euclid SGS Science Operations Concept Document | Euclid\_OD\_Dc\_00005\_SOCD | 0.6 | 15/07/11 |
| 3 | Euclid Science Requirements Document | DEM-SA-Dc-00001 | 6.0 | 06/09/11 |
| 4 | Euclid SOC Science Implementation Plan | Euclid\_SO\_Dc\_00007\_SIP | 0.5 | 02/09/11 |
| 5 | EC SGS Science Implementation Plan | EUCL-OAT-SGS-PL-00003 | 2.0 | 14/11/11 |
| 6 | EC Management Plan | EUCL-IAP-EUC-PL-00148 | 2.1 | 28/12/12 |
| 7 | Euclid SGS Preliminary Requirements Review: Approach and Schedule | EUCL-ESAC-TN-8001 | 1.0 | 18/10/12 |
| 8 | Euclid Legacy Ground Data Processing Requirements Document | EUCL-LEI-SGS-REQ-00269 | 1.0 | 01/05/12 |
| 9 | Euclid SGS Document Delivery List |  |  |  |
| 10 | ECSS Compliance Matrix |  |  |  |
| 11 | Euclid Archive Development Strategy | EUCL-OTS-SOW-8-001 | 1.0 | 27/02/13 |
| 12 | Euclid SGS Project Milestones | EUCL-EST-PL-8-001 | 1.0 | 28/01/13 |
| 13 | EC SGS Work-Package Breakdown and Description | EUCL-OTS-SGS-WPD-00082 | 2.0 | 14/11/11 |
| 14 | Euclid SGS Configuration Management Plan | EUCL-OTS-PL-8-002 |  | TBW |
| 15 | Euclid SOC Management Plan | EUCL-SOC-PL-8-xxx |  | TBW |
| 16 | EC SGS Management Plan | EUCL-OTS-PL-8-005 |  | TBW |

# Acronyms and abbreviations

## Acronyms

To be corrected and completed….

AVM (instruments) Avionic Model

EA Euclid Archive

EC Euclid Consortium

EC SGS part of the Science Ground Segment c/o the Euclid Consortium

ECSS European Cooperation for Space Standardization

ELA Euclid Legacy Archive

EMA Euclid Mission Archive

EnEI non Euclid Imaging

ESA European Space Agency

ESST Euclid Science Study Team

EST Euclid Science Team

FM (instruments) Flight Model

I/F Interface

ICD Interface Control Document

IOT Instrument Operations Team

MOC Mission Operations Centre

OU Organisation Unit

NIS Near Infrared Spectrograph

OGS Operations Ground Segment

OU Organisation Unit

PA/QA Product Assurance / Quality Assurance

PAP Product Assurance Plan

Photo-z Photometric redshift

PRR Preliminary Requirements Review

PT Product Tree

SciRD Science Requirement Document

SCMP Software Configuration Management Plan

SDC Science Data Centre

SGS Science Ground Segment

SIP Science Implementation Plan

SIRD Science Implementation Requirements Document

SMP Science Management Plan

SOC Science Operations Centre

SQAP Software Quality Assurance Plan

ST System Team

SWG Science Working Group

S/C Spacecraft

S/W Software

TBC To Be Confirmed

TBD To Be Defined

TBW To Be Written

VObs Virtual Observatory

WBS Work Breakdown Structure

WP Work-Package

WPD Work-Package Description

# Introduction

## Test

Blah blah

END OF DOCUMENT